

Claims:

- Sub 917
1. A method for reducing contamination inside a container including a plastic material, comprising coating selected portions of the plastic material of the container with a coating that includes titanium dioxide.
 2. The method of claim 1, wherein the container is especially adapted for holding semiconductor wafers, and wherein the selected portions are interior surfaces of the container.
 3. The method of claim 1, further comprising selecting the plastic material so that the plastic material includes polypropylene.
 4. The method of claim 1, further comprising selecting the plastic material so that the plastic material includes polycarbonate.
 5. A method for reducing contamination in a container including a plastic material, comprising coating selected portions of the container with a coating that is adapted to be relatively hydrophilic, wherein said coating is further adapted to decompose organic molecules into gases.
 6. The method of claim 5, further comprising selecting the plastic material so that the plastic material includes polypropylene.

7. The method of claim 5, further comprising selecting the plastic material so that the plastic material includes polycarbonate.
8. The method of claim 5, wherein said coating is adapted to be more hydrophilic than the plastic material as a result of being energized by ultraviolet light.
9. The method of claim 8, wherein said coating is adapted to photocatalyze a reaction with organic molecules with the energy provided by ultraviolet light.
10. An apparatus for reducing contamination of an article, comprising a container adapted for holding the article, said container including a plastic material, the apparatus further comprising a coating on selected portions of said plastic material of said container, said coating including titanium dioxide.
11. The apparatus of claim 10, wherein said container includes a closeable lid for substantially sealing the interior of the container from the external atmosphere.
12. The apparatus of claim 11, wherein said container includes polypropylene.
13. The apparatus of claim 11, wherein said container includes polycarbonate.